

In the Claims

1. (Currently Amended) A yarn path guide for guiding traveling yarn comprising:
a guide roll; and
a supporting member that supports the guide roll, the supporting member having a rotating shaft at a position twisted at a right angle to the rotating shaft of the guide roll, and
wherein a fiber bundle is guided automatically in an original yarn path direction by inclining the guide roll with respect to the yarn path by rotating around the rotating shaft of the supporting member in response to variation of the yarn path, and wherein α and β have the relation of $\alpha < \beta$, when an angle between the rotating shaft of the supporting member and the original yarn path entering the guide roll is α and an angle between the rotating shaft of the supporting member and the original yarn path coming out of the guide roll is β .
2. (Original) The yarn path guide of claim 1, wherein the rotating shaft of the supporting member crosses the original yarn path.
3. (Cancelled)
4. (Previously Presented) A manufacturing apparatus of a fiber bundle package comprising the yarn path guide of claim 1.
5. (Currently Amended) A method of manufacturing the fiber bundle package of claim 4 comprising supplying a fiber bundle to the ~~apparatus~~ yarn path guide.
6. (Currently Amended) A fiber bundle traversing device, comprising a traverse guide for guiding the fiber bundle and a traverse mechanism of the traverse guide, for traversing the fiber bundle by reciprocating the traverse guide in the bobbin rotation direction by means of ~~[[a]]~~ the traverse mechanism,
wherein the traverse guide has a yarn path guide ~~mechanism~~ for guiding traveling yarn comprising:
a guide roll; and
a supporting member that supports the guide roll, the supporting member having a rotating shaft at a position twisted at a right angle to the rotating shaft of the guide roll, and
wherein a fiber bundle is guided automatically in an original yarn path direction by inclining the guide roll with respect to the yarn path by rotating around the rotating shaft of the supporting member in response to variation of the yarn path, and wherein α and β have the relation of $\alpha < \beta$, when an angle between the rotating shaft of the supporting member and the original yarn path

entering the guide roll is α and an angle between the rotating shaft of the supporting member and the original yarn path coming out of the guide roll is β for guiding the fiber bundle deviating from the yarn path in the original yarn path direction, and wherein the traverse guide comprises, at least, an upper guide roll of which the roll rotating shaft is arranged at a position twisted substantially at a right angle to a bobbin rotating shaft and a final guide roll of which the roll rotating shaft is arranged substantially parallel to the bobbin rotating shafts, and the yarn guide mechanism is arranged on the upper guide roll.

7. (Original) The fiber bundle traversing device of claim 6, comprising the yarn path guide of claim 1.

8. (Original) The fiber bundle traversing device of claim 7, wherein the rotating shaft of the supporting member crosses the center of yarn path.

9. (Cancelled)

10. (Currently Amended) The fiber bundle traversing device of claim ~~[[9]]~~ 6, wherein the roll rotating shaft of the upper guide roll is arranged on the downstream side of the ~~yarn path~~ shaft of the supporting member.

11. (Currently Amended) A fiber bundle traversing device, comprising a traverse guide for guiding the fiber bundle and a traverse mechanism of the traverse guide, for traversing the fiber bundle by reciprocating the traverse guide in the bobbin rotation direction by means of a traverse mechanism,

wherein the traverse guide comprises, at least, an upper guide roll of which the roll rotating shaft is arranged at a position twisted substantially at a right angle to the bobbin rotating shaft and a final guide roll of which roll rotating shaft is arranged substantially parallel to the bobbin rotating shaft, and the upper guide roll and the final guide roll are arranged, respectively, so that the roll rotating shaft direction of the guide roll and the yarn path direction entering the guide roll have a positional relation twisted substantially at a right angle and, wherein the length of the final guide roll in contact with the fiber bundle is 15 mm or more.

12. (Cancelled)

13. (Previously Presented) The fiber bundle traversing device of claim 11, having two or more guide rolls of which the roll rotating shaft is arranged substantially parallel to the bobbin rotating shaft, including the final guide roll,

wherein the total length of these rolls in contact with fiber bundle is 25 mm or more.

14. (Original) The fiber bundle traversing device of claim 11, wherein the upper guide roll has a yarn path guide mechanism for guiding the fiber bundle deviating from the yarn path in the original yarn path direction.

15. (Previously Presented) The fiber bundle traversing device of claim 14, wherein the yarn path guide mechanism comprises a yarn path guide for guiding traveling yarn comprising:

a guide roll; and

a supporting member that supports the guide roll, the supporting member having a rotating shaft at a position twisted at a right angle to the rotating shaft of the guide roll, and

wherein a fiber bundle is guided automatically in an original yarn path direction by inclining the guide roll with respect to the yarn path by rotating around the rotating shaft of the supporting member in response to variation of the yarn path.

16. (Previously Presented) A fiber bundle winding device comprising the fiber bundle traversing device of claim 6.

17. (Original) A manufacturing apparatus of fiber bundle package, comprising the fiber bundle winding device of claim 16.

18. (Currently Amended) A method of manufacturing the fiber bundle package of claim 17 comprising a method of manufacturing the fiber bundle package comprising supplying a fiber bundle to the ~~apparatus~~ yarn path guide.

19. (Previously Presented) The yarn path guide of claim 2, wherein α and β have the relation of $\alpha < \beta$, when an angle between the rotating shaft of the supporting member and the original yarn path entering the guide roll is α and an angle between the rotating shaft of the supporting member and the original yarn path coming out of the guide roll is β .

20. (Previously Presented) The fiber bundle traversing device of claim 8, wherein the traverse guide comprises, at least, an upper guide roll of which the roll rotating shaft is arranged at a position twisted substantially at a right angle to a bobbin rotating shaft and a final guide roll of which the roll rotating shaft is arranged substantially parallel to the bobbin rotating shafts, and the yarn guide mechanism is arranged on the upper guide roll.